

What is claimed is:

1. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:1;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:1
5 from nucleotide 463 to nucleotide 606;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:1
from nucleotide 1 to nucleotide 501;
 - (d) a polynucleotide comprising the nucleotide sequence of the full-length
protein coding sequence of clone bd164_7 deposited under accession number ATCC
10 98364;
 - (e) a polynucleotide encoding the full-length protein encoded by the cDNA
insert of clone bd164_7 deposited under accession number ATCC 98364;
 - (f) a polynucleotide comprising the nucleotide sequence of a mature protein
coding sequence of clone bd164_7 deposited under accession number ATCC 98364;
 - 15 (g) a polynucleotide encoding a mature protein encoded by the cDNA insert
of clone bd164_7 deposited under accession number ATCC 98364;
 - (h) a polynucleotide encoding a protein comprising the amino acid sequence
of SEQ ID NO:2;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino
20 acid sequence of SEQ ID NO:2 having biological activity, the fragment comprising the
amino acid sequence from amino acid 19 to amino acid 28 of SEQ ID NO:2;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g)
above;
 - (k) a polynucleotide which encodes a species homologue of the protein of
25 (h) or (i) above; and
 - (l) a polynucleotide capable of hybridizing under stringent conditions to
any one of the polynucleotides specified in (a)-(i).
2. The polynucleotide of claim 1 wherein said polynucleotide is operably
30 linked to at least one expression control sequence.
3. A host cell transformed with the polynucleotide of claim 2.
4. The host cell of claim 3, wherein said cell is a mammalian cell.
- 35 5. A process for producing a protein encoded by the polynucleotide of
claim 2, which process comprises:

- and
- (a) growing a culture of the host cell of claim 3 in a suitable culture medium;
 - (b) purifying said protein from the culture.

5 6. A protein produced according to the process of claim 5.

7. The protein of claim 6 comprising a mature protein.

8. A protein comprising an amino acid sequence selected from the group
10 consisting of:

- (a) the amino acid sequence of SEQ ID NO:2;
 - (b) fragments of the amino acid sequence of SEQ ID NO:2 comprising the amino acid sequence from amino acid 19 to amino acid 28 of SEQ ID NO:2; and
 - (c) the amino acid sequence encoded by the cDNA insert of clone bd164_7
15 deposited under accession number ATCC 98364;
- the protein being substantially free from other mammalian proteins.

9. The protein of claim 8, wherein said protein comprises the amino acid
sequence of SEQ ID NO:2.

20 10. A composition comprising the protein of claim 8 and a pharmaceutically acceptable carrier.

11. A method for preventing, treating or ameliorating a medical condition
25 which comprises administering to a mammalian subject a therapeutically effective amount of a composition of claim 10.

12. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:1.

30 13. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:3;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:3 from nucleotide 202 to nucleotide 849;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:3
35 from nucleotide 511 to nucleotide 849;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bi129_2 deposited under accession number ATCC 98364;

(e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bi129_2 deposited under accession number ATCC 98364;

(f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone bi129_2 deposited under accession number ATCC 98364;

5 (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone bi129_2 deposited under accession number ATCC 98364;

(h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:4;

(i) a polynucleotide encoding a protein comprising a fragment of the amino
10 acid sequence of SEQ ID NO:4 having biological activity, the fragment comprising the amino acid sequence from amino acid 103 to amino acid 112 of SEQ ID NO:4;

(j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;

(k) a polynucleotide which encodes a species homologue of the protein of
15 (h) or (i) above ; and

(l) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i).

14. A protein comprising an amino acid sequence selected from the group
20 consisting of:

(a) the amino acid sequence of SEQ ID NO:4;

(b) the amino acid sequence of SEQ ID NO:4 from amino acid 88 to amino acid 209;

(c) fragments of the amino acid sequence of SEQ ID NO:4 comprising the
25 amino acid sequence from amino acid 103 to amino acid 112 of SEQ ID NO:4; and

(d) the amino acid sequence encoded by the cDNA insert of clone bi129_2 deposited under accession number ATCC 98364;

the protein being substantially free from other mammalian proteins.

30 15. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:3.

16. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:8;

(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:8
35 from nucleotide 156 to nucleotide 902;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:8 from nucleotide 225 to nucleotide 902;

(d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:8 from nucleotide 237 to nucleotide 654;

(e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone cg160_6 deposited under accession number ATCC 98364;

(f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone cg160_6 deposited under accession number ATCC 98364;

(g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone cg160_6 deposited under accession number ATCC 98364;

(h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone cg160_6 deposited under accession number ATCC 98364;

(i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:9;

(j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:9 having biological activity, the fragment comprising the amino acid sequence from amino acid 119 to amino acid 128 of SEQ ID NO:9;

(k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;

(l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above; and

(m) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(j).

17. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:9;

(b) the amino acid sequence of SEQ ID NO:9 from amino acid 28 to amino acid 166;

(c) fragments of the amino acid sequence of SEQ ID NO:9 comprising the amino acid sequence from amino acid 119 to amino acid 128 of SEQ ID NO:9; and

(d) the amino acid sequence encoded by the cDNA insert of clone cg160_6 deposited under accession number ATCC 98364;

the protein being substantially free from other mammalian proteins.

18. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:8.

19. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:10;

(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:10 from nucleotide 400 to nucleotide 2454;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:10 from nucleotide 1454 to nucleotide 1787;

5 (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone cw775_1 deposited under accession number ATCC 98364;

(e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone cw775_1 deposited under accession number ATCC 98364;

10 (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone cw775_1 deposited under accession number ATCC 98364;

(g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone cw775_1 deposited under accession number ATCC 98364;

15 (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:11;

(i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:11 having biological activity, the fragment comprising the amino acid sequence from amino acid 337 to amino acid 346 of SEQ ID NO:11;

20 (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;

(k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and

(l) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i).

25 20. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:11;

30 (b) fragments of the amino acid sequence of SEQ ID NO:11 comprising the amino acid sequence from amino acid 337 to amino acid 346 of SEQ ID NO:11; and

(c) the amino acid sequence encoded by the cDNA insert of clone cw775_1 deposited under accession number ATCC 98364;

the protein being substantially free from other mammalian proteins.

35 21. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:10.

22. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:12;

- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:12 from nucleotide 506 to nucleotide 1096;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:12 from nucleotide 656 to nucleotide 1096;
- 5 (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:12 from nucleotide 2 to nucleotide 1078;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone dn740_3 deposited under accession number ATCC 98364;
- 10 (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone dn740_3 deposited under accession number ATCC 98364;
- (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone dn740_3 deposited under accession number ATCC 98364;
- (h) a polynucleotide encoding a mature protein encoded by the cDNA insert
- 15 of clone dn740_3 deposited under accession number ATCC 98364;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:13;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:13 having biological activity, the fragment comprising the
- 20 amino acid sequence from amino acid 93 to amino acid 102 of SEQ ID NO:13;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- 25 (m) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(j).

- 23. A protein comprising an amino acid sequence selected from the group consisting of:
 - 30 (a) the amino acid sequence of SEQ ID NO:13;
 - (b) the amino acid sequence of SEQ ID NO:13 from amino acid 1 to amino acid 191;
 - (c) fragments of the amino acid sequence of SEQ ID NO:13 comprising the amino acid sequence from amino acid 93 to amino acid 102 of SEQ ID NO:13; and
 - 35 (d) the amino acid sequence encoded by the cDNA insert of clone dn740_3 deposited under accession number ATCC 98364;
- the protein being substantially free from other mammalian proteins.

24. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:12.
25. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:14;
 - 5 (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:14 from nucleotide 1563 to nucleotide 1685;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:14 from nucleotide 1100 to nucleotide 1646;
 - (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone dn904_2 deposited under accession number ATCC 98364;
 - (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone dn904_2 deposited under accession number ATCC 98364;
 - (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone dn904_2 deposited under accession number ATCC 98364;
 - 15 (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone dn904_2 deposited under accession number ATCC 98364;
 - (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:15;
 - 20 (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:15 having biological activity, the fragment comprising the amino acid sequence from amino acid 15 to amino acid 24 of SEQ ID NO:15;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
 - 25 (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
 - (l) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i).
- 30 26. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:15;
 - (b) the amino acid sequence of SEQ ID NO:15 from amino acid 1 to amino acid 28;
 - 35 (c) fragments of the amino acid sequence of SEQ ID NO:15 comprising the amino acid sequence from amino acid 15 to amino acid 24 of SEQ ID NO:15; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone dn904_2 deposited under accession number ATCC 98364;

the protein being substantially free from other mammalian proteins.

27. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:14.
- 5 28. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:16;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:16 from nucleotide 359 to nucleotide 1369;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:16 from nucleotide 1547 to nucleotide 1868;
 - (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone do568_11 deposited under accession number ATCC 98364;
 - (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone do568_11 deposited under accession number ATCC 98364;
 - 15 (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone do568_11 deposited under accession number ATCC 98364;
 - (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone do568_11 deposited under accession number ATCC 98364;
 - 20 (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:17;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:17 having biological activity, the fragment comprising the amino acid sequence from amino acid 163 to amino acid 172 of SEQ ID NO:17;
 - 25 (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
 - (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and
 - (l) a polynucleotide capable of hybridizing under stringent conditions to
 - 30 any one of the polynucleotides specified in (a)-(i).
29. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:17;
 - 35 (b) fragments of the amino acid sequence of SEQ ID NO:17 comprising the amino acid sequence from amino acid 163 to amino acid 172 of SEQ ID NO:17; and
 - (c) the amino acid sequence encoded by the cDNA insert of clone do568_11 deposited under accession number ATCC 98364;

the protein being substantially free from other mammalian proteins.

30. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:16.
- 5 31. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:18;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:18 from nucleotide 85 to nucleotide 1263;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:18 from nucleotide 265 to nucleotide 608;
 - (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone ek626_3 deposited under accession number ATCC 98364;
 - (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone ek626_3 deposited under accession number ATCC 98364;
 - 15 (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone ek626_3 deposited under accession number ATCC 98364;
 - (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone ek626_3 deposited under accession number ATCC 98364;
 - 20 (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:19;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:19 having biological activity, the fragment comprising the amino acid sequence from amino acid 191 to amino acid 200 of SEQ ID NO:19;
 - 25 (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
 - (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
 - (l) a polynucleotide capable of hybridizing under stringent conditions to
 - 30 any one of the polynucleotides specified in (a)-(i).
32. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:19;
 - 35 (b) the amino acid sequence of SEQ ID NO:19 from amino acid 61 to amino acid 175;
 - (c) fragments of the amino acid sequence of SEQ ID NO:19 comprising the amino acid sequence from amino acid 191 to amino acid 200 of SEQ ID NO:19; and

(d) the amino acid sequence encoded by the cDNA insert of clone ek626_3 deposited under accession number ATCC 98364; the protein being substantially free from other mammalian proteins.

5 33. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:18.

34. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:20;

(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:20
10 from nucleotide 3746 to nucleotide 4027;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:20 from nucleotide 3815 to nucleotide 4027;

(d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:20 from nucleotide 3640 to nucleotide 3940;

15 (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone fe366_1 deposited under accession number ATCC 98364;

(f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone fe366_1 deposited under accession number ATCC 98364;

20 (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone fe366_1 deposited under accession number ATCC 98364;

(h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone fe366_1 deposited under accession number ATCC 98364;

25 (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:21;

(j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:21 having biological activity, the fragment comprising the amino acid sequence from amino acid 42 to amino acid 51 of SEQ ID NO:21;

30 (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;

(l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and

(m) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(j).

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35. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:21;

(b) the amino acid sequence of SEQ ID NO:21 from amino acid 1 to amino acid 65;

(c) fragments of the amino acid sequence of SEQ ID NO:21 comprising the amino acid sequence from amino acid 42 to amino acid 51 of SEQ ID NO:21; and

5 (d) the amino acid sequence encoded by the cDNA insert of clone fe366_1 deposited under accession number ATCC 98364; the protein being substantially free from other mammalian proteins.

10 36. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:20.

37. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:33;

(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:33 from nucleotide 707 to nucleotide 1783;

15 (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:33 from nucleotide 368 to nucleotide 838;

(d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bp783_3 deposited under accession number ATCC 98369;

20 (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bp783_3 deposited under accession number ATCC 98369;

(f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone bp783_3 deposited under accession number ATCC 98369;

25 (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone bp783_3 deposited under accession number ATCC 98369;

(h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:34;

30 (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:34 having biological activity, the fragment comprising the amino acid sequence from amino acid 174 to amino acid 183 of SEQ ID NO:34;

(j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;

(k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and

35 (l) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i).

38. The polynucleotide of claim 37 wherein said polynucleotide is operably linked to at least one expression control sequence.

39. A host cell transformed with the polynucleotide of claim 38.

40. The host cell of claim 39, wherein said cell is a mammalian cell.

41. A process for producing a protein encoded by the polynucleotide of claim 38, which process comprises:

(a) growing a culture of the host cell of claim 39 in a suitable culture medium; and

(b) purifying said protein from the culture.

42. A protein produced according to the process of claim 41.

43. The protein of claim 42 comprising a mature protein.

44. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:34;

(b) the amino acid sequence of SEQ ID NO:34 from amino acid 1 to amino acid 44;

(c) fragments of the amino acid sequence of SEQ ID NO:34 comprising the amino acid sequence from amino acid 174 to amino acid 183 of SEQ ID NO:34; and

(d) the amino acid sequence encoded by the cDNA insert of clone bp783_3 deposited under accession number ATCC 98369;

the protein being substantially free from other mammalian proteins.

45. The protein of claim 44, wherein said protein comprises the amino acid sequence of SEQ ID NO:34.

46. The protein of claim 44, wherein said protein comprises the amino acid sequence of SEQ ID NO:34 from amino acid 1 to amino acid 44.

47. A composition comprising the protein of claim 44 and a pharmaceutically acceptable carrier.

48. A method for preventing, treating or ameliorating a medical condition which comprises administering to a mammalian subject a therapeutically effective amount of a composition of claim 47.

- 5 49. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:33.
50. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:35;
 - 10 (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:35 from nucleotide 99 to nucleotide 1514;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:35 from nucleotide 171 to nucleotide 1514;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:35
 - 15 from nucleotide 57 to nucleotide 623;
 - (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bu45_2 deposited under accession number ATCC 98369;
 - (f) a polynucleotide encoding the full-length protein encoded by the cDNA
 - 20 insert of clone bu45_2 deposited under accession number ATCC 98369;
 - (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone bu45_2 deposited under accession number ATCC 98369;
 - (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone bu45_2 deposited under accession number ATCC 98369;
 - 25 (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:36;
 - (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:36 having biological activity, the fragment comprising the amino acid sequence from amino acid 231 to amino acid 240 of SEQ ID NO:36;
 - 30 (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
 - (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
 - (m) a polynucleotide capable of hybridizing under stringent conditions to
 - 35 any one of the polynucleotides specified in (a)-(j).

51. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:36;
 - (b) the amino acid sequence of SEQ ID NO:36 from amino acid 1 to amino acid 175;
 - (c) fragments of the amino acid sequence of SEQ ID NO:36 comprising the amino acid sequence from amino acid 231 to amino acid 240 of SEQ ID NO:36; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone bu45_2 deposited under accession number ATCC 98369;
- the protein being substantially free from other mammalian proteins.
52. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:35.
53. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:37;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:37 from nucleotide 87 to nucleotide 980;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:37 from nucleotide 147 to nucleotide 980;
 - (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone ct864_4 deposited under accession number ATCC 98369;
 - (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone ct864_4 deposited under accession number ATCC 98369;
 - (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone ct864_4 deposited under accession number ATCC 98369;
 - (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone ct864_4 deposited under accession number ATCC 98369;
 - (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:38;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:38 having biological activity, the fragment comprising the amino acid sequence from amino acid 144 to amino acid 153 of SEQ ID NO:38;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
 - (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and
 - (l) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i).

54. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:38;
 - 5 (b) the amino acid sequence of SEQ ID NO:38 from amino acid 189 to amino acid 290;
 - (c) fragments of the amino acid sequence of SEQ ID NO:38 comprising the amino acid sequence from amino acid 144 to amino acid 153 of SEQ ID NO:38; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone ct864_4
 - 10 deposited under accession number ATCC 98369;
- the protein being substantially free from other mammalian proteins.

55. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:37.

15 56. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:39;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:39 from nucleotide 242 to nucleotide 580;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:39
- 20 from nucleotide 1 to nucleotide 387;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone df396_1 deposited under accession number ATCC 98369;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA
- 25 insert of clone df396_1 deposited under accession number ATCC 98369;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone df396_1 deposited under accession number ATCC 98369;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone df396_1 deposited under accession number ATCC 98369;
- 30 (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:40;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:40 having biological activity, the fragment comprising the amino acid sequence from amino acid 51 to amino acid 60 of SEQ ID NO:40;
- 35 (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and

(l) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i).

57. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:40;
 - (b) the amino acid sequence of SEQ ID NO:40 from amino acid 1 to amino acid 48;
 - (c) fragments of the amino acid sequence of SEQ ID NO:40 comprising the amino acid sequence from amino acid 51 to amino acid 60 of SEQ ID NO:40; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone df396_1 deposited under accession number ATCC 98369;
- the protein being substantially free from other mammalian proteins.

58. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:39.

59. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:41;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:41 from nucleotide 236 to nucleotide 1213;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:41 from nucleotide 1386 to nucleotide 1833;

- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone dh1135_9 deposited under accession number ATCC 98369;

- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone dh1135_9 deposited under accession number ATCC 98369;

- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone dh1135_9 deposited under accession number ATCC 98369;

- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone dh1135_9 deposited under accession number ATCC 98369;

- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:42;

- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:42 having biological activity, the fragment comprising the amino acid sequence from amino acid 157 to amino acid 166 of SEQ ID NO:42;

- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;

(k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and

(l) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i).

5

60. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:42;

(b) the amino acid sequence of SEQ ID NO:63 from amino acid 1 to amino acid 147;

(c) fragments of the amino acid sequence of SEQ ID NO:42 comprising the amino acid sequence from amino acid 157 to amino acid 166 of SEQ ID NO:42; and

(d) the amino acid sequence encoded by the cDNA insert of clone dh1135_9 deposited under accession number ATCC 98369;

15 the protein being substantially free from other mammalian proteins.

61. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:41.

62. An isolated polynucleotide selected from the group consisting of:

20

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:43;

(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:43 from nucleotide 334 to nucleotide 675;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:43 from nucleotide 409 to nucleotide 675;

(d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone dn809_5 deposited under accession number ATCC 98369;

(e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone dn809_5 deposited under accession number ATCC 98369;

(f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone dn809_5 deposited under accession number ATCC 98369;

(g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone dn809_5 deposited under accession number ATCC 98369;

(h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:44;

(i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:44 having biological activity, the fragment comprising the amino acid sequence from amino acid 52 to amino acid 61 of SEQ ID NO:44;

(j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;

(k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and

(l) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i).

63. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:44;

(b) the amino acid sequence of SEQ ID NO:44 from amino acid 1 to amino acid 110;

(c) fragments of the amino acid sequence of SEQ ID NO:44 comprising the amino acid sequence from amino acid 52 to amino acid 61 of SEQ ID NO:44; and

(d) the amino acid sequence encoded by the cDNA insert of clone dn809_5 deposited under accession number ATCC 98369;

the protein being substantially free from other mammalian proteins.

64. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:43.

65. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:45;

(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:45 from nucleotide 447 to nucleotide 791;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:45 from nucleotide 597 to nucleotide 791;

(d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:45 from nucleotide 1 to nucleotide 546;

(e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone ej224_1 deposited under accession number ATCC 98369;

(f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone ej224_1 deposited under accession number ATCC 98369;

- (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone ej224_1 deposited under accession number ATCC 98369;
- (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone ej224_1 deposited under accession number ATCC 98369;
- 5 (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:46;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:46 having biological activity, the fragment comprising the amino acid sequence from amino acid 52 to amino acid 61 of SEQ ID NO:46;
- 10 (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- (m) a polynucleotide capable of hybridizing under stringent conditions to
15 any one of the polynucleotides specified in (a)-(j).
66. A protein comprising an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:46;
- 20 (b) the amino acid sequence of SEQ ID NO:46 from amino acid 82 to amino acid 100;
- (c) fragments of the amino acid sequence of SEQ ID NO:46 comprising the amino acid sequence from amino acid 52 to amino acid 61 of SEQ ID NO:46; and
- (d) the amino acid sequence encoded by the cDNA insert of clone ej224_1
25 deposited under accession number ATCC 98369;
- the protein being substantially free from other mammalian proteins.
67. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:45.
- 30 68. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:47;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:47 from nucleotide 18 to nucleotide 347;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:47
35 from nucleotide 1 to nucleotide 345;
- (d) a polynucleotide comprising the nucleotide sequence of the full- length protein coding sequence of clone ek591_1 deposited under accession number ATCC 98369;

(e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone ek591_1 deposited under accession number ATCC 98369;

(f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone ek591_1 deposited under accession number ATCC 98369;

5 (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone ek591_1 deposited under accession number ATCC 98369;

(h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:48;

(i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:48 having biological activity, the fragment comprising the amino acid sequence from amino acid 50 to amino acid 59 of SEQ ID NO:48;

(j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;

(k) a polynucleotide which encodes a species homologue of the protein of 15 (h) or (i) above; and

(l) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(k).

69. A protein comprising an amino acid sequence selected from the group 20 consisting of:

(a) the amino acid sequence of SEQ ID NO:48;

(b) the amino acid sequence of SEQ ID NO:48 from amino acid 1 to amino acid 109;

(c) fragments of the amino acid sequence of SEQ ID NO:48 comprising the 25 amino acid sequence from amino acid 50 to amino acid 59 of SEQ ID NO:48; and

(d) the amino acid sequence encoded by the cDNA insert of clone ek591_1 deposited under accession number ATCC 98369;

the protein being substantially free from other mammalian proteins.

30 70. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:47.

71. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:49;

35 (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:49 from nucleotide 593 to nucleotide 1663;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:49 from nucleotide 833 to nucleotide 1663;

(d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:49 from nucleotide 648 to nucleotide 1063;

(e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone er381_1 deposited under accession number ATCC 98369;

(f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone er381_1 deposited under accession number ATCC 98369;

(g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone er381_1 deposited under accession number ATCC 98369;

(h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone er381_1 deposited under accession number ATCC 98369;

(i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:50;

(j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:50 having biological activity, the fragment comprising the amino acid sequence from amino acid 173 to amino acid 182 of SEQ ID NO:50;

(k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;

(l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above; and

(m) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(j).

72. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:50;

(b) the amino acid sequence of SEQ ID NO:50 from amino acid 20 to amino acid 157;

(c) fragments of the amino acid sequence of SEQ ID NO:50 comprising the amino acid sequence from amino acid 173 to amino acid 182 of SEQ ID NO:50; and

(d) the amino acid sequence encoded by the cDNA insert of clone er381_1 deposited under accession number ATCC 98369;

the protein being substantially free from other mammalian proteins.

73. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:49.

74. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:51;

(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:51 from nucleotide 1055 to nucleotide 1246;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:51 from nucleotide 759 to nucleotide 1152;

5 (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone gq38_1 deposited under accession number ATCC 98369;

(e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone gq38_1 deposited under accession number ATCC 98369;

10 (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone gq38_1 deposited under accession number ATCC 98369;

(g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone gq38_1 deposited under accession number ATCC 98369;

15 (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:52;

(i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:52 having biological activity, the fragment comprising the amino acid sequence from amino acid 20 to amino acid 29 of SEQ ID NO:52;

20 (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;

(k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and

(l) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i).

25 75. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:52;

30 (b) the amino acid sequence of SEQ ID NO:52 from amino acid 1 to amino acid 32;

(c) fragments of the amino acid sequence of SEQ ID NO:52 comprising the amino acid sequence from amino acid 20 to amino acid 29 of SEQ ID NO:52; and

(d) the amino acid sequence encoded by the cDNA insert of clone gq38_1 deposited under accession number ATCC 98369;

35 the protein being substantially free from other mammalian proteins.

76. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:51.

77. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:65;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:65 from nucleotide 54 to nucleotide 737;
 - 5 (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:65 from nucleotide 188 to nucleotide 671;
 - (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bf171_6 deposited under accession number ATCC 98371;
 - 10 (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bf171_6 deposited under accession number ATCC 98371;
 - (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone bf171_6 deposited under accession number ATCC 98371;
 - (g) a polynucleotide encoding a mature protein encoded by the cDNA insert
 - 15 of clone bf171_6 deposited under accession number ATCC 98371;
 - (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:66;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:66 having biological activity, the fragment comprising the
 - 20 amino acid sequence from amino acid 109 to amino acid 118 of SEQ ID NO:66;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
 - (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
 - 25 (l) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i).
78. The polynucleotide of claim 77 wherein said polynucleotide is operably linked to at least one expression control sequence.
- 30 79. A host cell transformed with the polynucleotide of claim 78.
80. The host cell of claim 79, wherein said cell is a mammalian cell.
- 35 81. A process for producing a protein encoded by the polynucleotide of claim 78, which process comprises:
- (a) growing a culture of the host cell of claim 79 in a suitable culture medium; and

(b) purifying said protein from the culture.

82. A protein produced according to the process of claim 81.

5 83. The protein of claim 82 comprising a mature protein.

84. A protein comprising an amino acid sequence selected from the group consisting of:

- 10 (a) the amino acid sequence of SEQ ID NO:66;
(b) the amino acid sequence of SEQ ID NO:66 from amino acid 46 to amino acid 206;
(c) fragments of the amino acid sequence of SEQ ID NO:66 comprising the amino acid sequence from amino acid 109 to amino acid 118 of SEQ ID NO:66; and
(d) the amino acid sequence encoded by the cDNA insert of clone bf171_6
15 deposited under accession number ATCC 98371;
the protein being substantially free from other mammalian proteins.

20 85. The protein of claim 84, wherein said protein comprises the amino acid sequence of SEQ ID NO:66.

86. The protein of claim 84, wherein said protein comprises the amino acid sequence of SEQ ID NO:66 from amino acid 46 to amino acid 206.

25 87. A composition comprising the protein of claim 84 and a pharmaceutically acceptable carrier.

30 88. A method for preventing, treating or ameliorating a medical condition which comprises administering to a mammalian subject a therapeutically effective amount of a composition of claim 87.

89. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:65.

90. An isolated polynucleotide selected from the group consisting of:

- 35 (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:67;
(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:67 from nucleotide 135 to nucleotide 1169;
(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:67 from nucleotide 1 to nucleotide 875;

(d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone ck181_7 deposited under accession number ATCC 98371;

(e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone ck181_7 deposited under accession number ATCC 98371;

(f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone ck181_7 deposited under accession number ATCC 98371;

(g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone ck181_7 deposited under accession number ATCC 98371;

(h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:68;

(i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:68 having biological activity, the fragment comprising the amino acid sequence from amino acid 167 to amino acid 176 of SEQ ID NO:68;

(j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;

(k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and

(l) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i).

91. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:68;

(b) the amino acid sequence of SEQ ID NO:68 from amino acid 1 to amino acid 247;

(c) fragments of the amino acid sequence of SEQ ID NO:68 comprising the amino acid sequence from amino acid 167 to amino acid 176 of SEQ ID NO:68; and

(d) the amino acid sequence encoded by the cDNA insert of clone ck181_7 deposited under accession number ATCC 98371;

the protein being substantially free from other mammalian proteins.

92. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:67.

93. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:69;

- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:69 from nucleotide 882 to nucleotide 1106;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:69 from nucleotide 1050 to nucleotide 1106;
- 5 (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:69 from nucleotide 1028 to nucleotide 1395;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone co736_3 deposited under accession number ATCC 98371;
- 10 (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone co736_3 deposited under accession number ATCC 98371;
- (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone co736_3 deposited under accession number ATCC 98371;
- (h) a polynucleotide encoding a mature protein encoded by the cDNA insert
15 of clone co736_3 deposited under accession number ATCC 98371;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:70;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:70 having biological activity, the fragment comprising the
20 amino acid sequence from amino acid 32 to amino acid 41 of SEQ ID NO:70;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- 25 (m) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(j).

94. A protein comprising an amino acid sequence selected from the group consisting of:
- 30 (a) the amino acid sequence of SEQ ID NO:70;
- (b) fragments of the amino acid sequence of SEQ ID NO:70 comprising the amino acid sequence from amino acid 32 to amino acid 41 of SEQ ID NO:70; and
- (c) the amino acid sequence encoded by the cDNA insert of clone co736_3 deposited under accession number ATCC 98371;
- 35 the protein being substantially free from other mammalian proteins.

95. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:69.

96. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:71;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:71 from nucleotide 2283 to nucleotide 2858;
 - 5 (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:71 from nucleotide 1164 to nucleotide 1433;
 - (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone dm26_2 deposited under accession number ATCC 98371;
 - 10 (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone dm26_2 deposited under accession number ATCC 98371;
 - (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone dm26_2 deposited under accession number ATCC 98371;
 - (g) a polynucleotide encoding a mature protein encoded by the cDNA insert
 - 15 of clone dm26_2 deposited under accession number ATCC 98371;
 - (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:72;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:72 having biological activity, the fragment comprising the
 - 20 amino acid sequence from amino acid 91 to amino acid 100 of SEQ ID NO:72;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
 - (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and
 - 25 (l) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i).
97. A protein comprising an amino acid sequence selected from the group consisting of:
- 30 (a) the amino acid sequence of SEQ ID NO:72;
 - (b) fragments of the amino acid sequence of SEQ ID NO:72 comprising the amino acid sequence from amino acid 91 to amino acid 100 of SEQ ID NO:72; and
 - (c) the amino acid sequence encoded by the cDNA insert of clone dm26_2 deposited under accession number ATCC 98371;
 - 35 the protein being substantially free from other mammalian proteins.
98. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:71.

99. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:73;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:73
5 from nucleotide 168 to nucleotide 683;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:73
from nucleotide 318 to nucleotide 683;
 - (d) a polynucleotide comprising the nucleotide sequence of the full-length
protein coding sequence of clone eq229_3 deposited under accession number ATCC
10 98371;
 - (e) a polynucleotide encoding the full-length protein encoded by the cDNA
insert of clone eq229_3 deposited under accession number ATCC 98371;
 - (f) a polynucleotide comprising the nucleotide sequence of a mature protein
coding sequence of clone eq229_3 deposited under accession number ATCC 98371;
 - 15 (g) a polynucleotide encoding a mature protein encoded by the cDNA insert
of clone eq229_3 deposited under accession number ATCC 98371;
 - (h) a polynucleotide encoding a protein comprising the amino acid sequence
of SEQ ID NO:74;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino
20 acid sequence of SEQ ID NO:74 having biological activity, the fragment comprising the
amino acid sequence from amino acid 81 to amino acid 90 of SEQ ID NO:74;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g)
above;
 - (k) a polynucleotide which encodes a species homologue of the protein of
25 (h) or (i) above ; and
 - (l) a polynucleotide capable of hybridizing under stringent conditions to
any one of the polynucleotides specified in (a)-(i).
100. A protein comprising an amino acid sequence selected from the group
30 consisting of:
- (a) the amino acid sequence of SEQ ID NO:74;
 - (b) the amino acid sequence of SEQ ID NO:74 from amino acid 53 to amino
acid 172;
 - (c) fragments of the amino acid sequence of SEQ ID NO:74 comprising the
35 amino acid sequence from amino acid 81 to amino acid 90 of SEQ ID NO:74; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone eq229_3
deposited under accession number ATCC 98371;
- the protein being substantially free from other mammalian proteins.

101. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:73 and SEQ ID NO:75.

5 102. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:76;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:76 from nucleotide 67 to nucleotide 879;
- 10 (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:76 from nucleotide 118 to nucleotide 879;
- (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:76 from nucleotide 1224 to nucleotide 2171;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length
- 15 protein coding sequence of clone fh3_6 deposited under accession number ATCC 98371;
- (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone fh3_6 deposited under accession number ATCC 98371;
- (g) a polynucleotide comprising the nucleotide sequence of a mature protein
- 20 coding sequence of clone fh3_6 deposited under accession number ATCC 98371;
- (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone fh3_6 deposited under accession number ATCC 98371;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:77;
- 25 (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:77 having biological activity, the fragment comprising the amino acid sequence from amino acid 130 to amino acid 139 of SEQ ID NO:77;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- 30 (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above; and
- (m) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(j).

35 103. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:77;

(b) the amino acid sequence of SEQ ID NO:77 from amino acid 1 to amino acid 119;

(c) fragments of the amino acid sequence of SEQ ID NO:77 comprising the amino acid sequence from amino acid 130 to amino acid 139 of SEQ ID NO:77; and

5 (d) the amino acid sequence encoded by the cDNA insert of clone fh3_6 deposited under accession number ATCC 98371;
the protein being substantially free from other mammalian proteins.

10 104. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:76.

105. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:78;

15 (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:78 from nucleotide 2 to nucleotide 556;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:78 from nucleotide 53 to nucleotide 556;

(d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:78 from nucleotide 1 to nucleotide 367;

20 (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone fs87_3 deposited under accession number ATCC 98371;

(f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone fs87_3 deposited under accession number ATCC 98371;

25 (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone fs87_3 deposited under accession number ATCC 98371;

(h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone fs87_3 deposited under accession number ATCC 98371;

30 (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:79;

(j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:79 having biological activity, the fragment comprising the amino acid sequence from amino acid 87 to amino acid 96 of SEQ ID NO:79;

35 (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;

(l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above; and

(m) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(j).

106. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:79;
 - (b) fragments of the amino acid sequence of SEQ ID NO:79 comprising the amino acid sequence from amino acid 87 to amino acid 96 of SEQ ID NO:79; and
 - (c) the amino acid sequence encoded by the cDNA insert of clone fs87_3 deposited under accession number ATCC 98371;
- the protein being substantially free from other mammalian proteins.

107. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:78.

108. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:81;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:81 from nucleotide 492 to nucleotide 602;
- (c) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone fy530_2 deposited under accession number ATCC 98371;
- (d) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone fy530_2 deposited under accession number ATCC 98371;
- (e) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone fy530_2 deposited under accession number ATCC 98371;
- (f) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone fy530_2 deposited under accession number ATCC 98371;
- (g) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:82;
- (h) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:82 having biological activity, the fragment comprising the amino acid sequence from amino acid 13 to amino acid 22 of SEQ ID NO:82;
- (i) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(f) above;
- (j) a polynucleotide which encodes a species homologue of the protein of (g) or (h) above; and
- (k) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(h).

109. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:82;
 - 5 (b) fragments of the amino acid sequence of SEQ ID NO:82 comprising the amino acid sequence from amino acid 13 to amino acid 22 of SEQ ID NO:82; and
 - (c) the amino acid sequence encoded by the cDNA insert of clone fy530_2 deposited under accession number ATCC 98371;
- the protein being substantially free from other mammalian proteins.

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110. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:81, SEQ ID NO:80, and SEQ ID NO:83 .

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111. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:84;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:84 from nucleotide 154 to nucleotide 972;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:84 from nucleotide 1 to nucleotide 341;
- 20 (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone ge51_1 deposited under accession number ATCC 98371;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone ge51_1 deposited under accession number ATCC 98371;
- 25 (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone ge51_1 deposited under accession number ATCC 98371;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone ge51_1 deposited under accession number ATCC 98371;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence
- 30 of SEQ ID NO:85;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:85 having biological activity, the fragment comprising the amino acid sequence from amino acid 131 to amino acid 140 of SEQ ID NO:85;
- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g)
- 35 above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and

(l) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i).

112. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:85;
 - (b) the amino acid sequence of SEQ ID NO:85 from amino acid 1 to amino acid 62;
 - (c) fragments of the amino acid sequence of SEQ ID NO:85 comprising the amino acid sequence from amino acid 131 to amino acid 140 of SEQ ID NO:85; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone ge51_1 deposited under accession number ATCC 98371;
- the protein being substantially free from other mammalian proteins.

113. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:84.

114. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:86;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:86 from nucleotide 104 to nucleotide 892;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:86 from nucleotide 299 to nucleotide 892;
- (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:86 from nucleotide 798 to nucleotide 1261;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone gx183_1 deposited under accession number ATCC 98371;
- (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone gx183_1 deposited under accession number ATCC 98371;
- (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone gx183_1 deposited under accession number ATCC 98371;
- (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone gx183_1 deposited under accession number ATCC 98371;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:87;

- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:87 having biological activity, the fragment comprising the amino acid sequence from amino acid 126 to amino acid 135 of SEQ ID NO:87;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- (m) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(j).
115. A protein comprising an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:87;
- (b) the amino acid sequence of SEQ ID NO:87 from amino acid 53 to amino acid 89;
- (c) fragments of the amino acid sequence of SEQ ID NO:87 comprising the amino acid sequence from amino acid 126 to amino acid 135 of SEQ ID NO:87; and
- (d) the amino acid sequence encoded by the cDNA insert of clone gx183_1 deposited under accession number ATCC 98371;
- the protein being substantially free from other mammalian proteins.
116. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:86.
117. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:99;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:99 from nucleotide 170 to nucleotide 322;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:99 from nucleotide 218 to nucleotide 322;
- (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:99 from nucleotide 1814 to nucleotide 2355;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bl209_10 deposited under accession number ATCC 98379;
- (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bl209_10 deposited under accession number ATCC 98379;
- (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone bl209_10 deposited under accession number ATCC 98379;

(h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone bl209_10 deposited under accession number ATCC 98379;

(i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:100;

5 (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:100 having biological activity, the fragment comprising the amino acid sequence from amino acid 20 to amino acid 29 of SEQ ID NO:100;

(k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;

10 (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and

(m) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(j).

15 118. The polynucleotide of claim 117 wherein said polynucleotide is operably linked to at least one expression control sequence.

119. A host cell transformed with the polynucleotide of claim 118.

20 120. The host cell of claim 119, wherein said cell is a mammalian cell.

121. A process for producing a protein encoded by the polynucleotide of claim 118, which process comprises:

25 (a) growing a culture of the host cell of claim 119 in a suitable culture medium; and

(b) purifying said protein from the culture.

122. A protein produced according to the process of claim 121.

30 123. The protein of claim 122 comprising a mature protein.

124. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:100;

35 (b) fragments of the amino acid sequence of SEQ ID NO:100 comprising the amino acid sequence from amino acid 20 to amino acid 29 of SEQ ID NO:100; and

(c) the amino acid sequence encoded by the cDNA insert of clone bl209_10 deposited under accession number ATCC 98379;

the protein being substantially free from other mammalian proteins.

125. The protein of claim 124, wherein said protein comprises the amino acid sequence of SEQ ID NO:100.

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126. A composition comprising the protein of claim 124 and a pharmaceutically acceptable carrier.

127. A method for preventing, treating or ameliorating a medical condition which comprises administering to a mammalian subject a therapeutically effective amount of a composition of claim 126.

128. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:99.

129. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:101;
(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:101 from nucleotide 102 to nucleotide 1295;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:101 from nucleotide 162 to nucleotide 1295;

(d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:101 from nucleotide 804 to nucleotide 1184;

(e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone cr1162_25 deposited under accession number ATCC 98379;

(f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone cr1162_25 deposited under accession number ATCC 98379;

(g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone cr1162_25 deposited under accession number ATCC 98379;

(h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone cr1162_25 deposited under accession number ATCC 98379;

(i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:102;

(j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:102 having biological activity, the fragment comprising the amino acid sequence from amino acid 194 to amino acid 203 of SEQ ID NO:102;

(k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;

(l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and

(m) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(j).

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130. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:102;

(b) the amino acid sequence of SEQ ID NO:102 from amino acid 236 to amino acid 361;

(c) fragments of the amino acid sequence of SEQ ID NO:102 comprising the amino acid sequence from amino acid 194 to amino acid 203 of SEQ ID NO:102; and

(d) the amino acid sequence encoded by the cDNA insert of clone cr1162_25 deposited under accession number ATCC 98379;

15 the protein being substantially free from other mammalian proteins.

131. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:101.

20 132. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:103;

(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:103 from nucleotide 351 to nucleotide 842;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:103 from nucleotide 687 to nucleotide 842;

(d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:103 from nucleotide 1 to nucleotide 689;

(e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone dh40_3 deposited under accession number ATCC 98379;

(f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone dh40_3 deposited under accession number ATCC 98379;

(g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone dh40_3 deposited under accession number ATCC 98379;

(h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone dh40_3 deposited under accession number ATCC 98379;

(i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:104;

(j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:104 having biological activity, the fragment comprising the amino acid sequence from amino acid 77 to amino acid 86 of SEQ ID NO:104;

(k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;

(l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above; and

(m) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(j).

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133. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:104;

(b) the amino acid sequence of SEQ ID NO:104 from amino acid 1 to amino acid 113;

(c) fragments of the amino acid sequence of SEQ ID NO:104 comprising the amino acid sequence from amino acid 77 to amino acid 86 of SEQ ID NO:104; and

(d) the amino acid sequence encoded by the cDNA insert of clone dh40_3 deposited under accession number ATCC 98379;

20 the protein being substantially free from other mammalian proteins.

134. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:103.

25 135. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:105;

(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:105 from nucleotide 2205 to nucleotide 2882;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:105 from nucleotide 2262 to nucleotide 2882;

(d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:105 from nucleotide 2494 to nucleotide 3120;

(e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone di39_9 deposited under accession number ATCC 98379;

(f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone di39_9 deposited under accession number ATCC 98379;

(g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone di39_9 deposited under accession number ATCC 98379;

(h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone di39_9 deposited under accession number ATCC 98379;

5 (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:106;

(j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:106 having biological activity, the fragment comprising the amino acid sequence from amino acid 108 to amino acid 117 of SEQ ID NO:106;

10 (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;

(l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and

(m) a polynucleotide capable of hybridizing under stringent conditions to
15 any one of the polynucleotides specified in (a)-(j).

136. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:106;

20 (b) fragments of the amino acid sequence of SEQ ID NO:106 comprising the amino acid sequence from amino acid 108 to amino acid 117 of SEQ ID NO:106; and

(c) the amino acid sequence encoded by the cDNA insert of clone di39_9 deposited under accession number ATCC 98379;

the protein being substantially free from other mammalian proteins.

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137. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:105.

138. An isolated polynucleotide selected from the group consisting of:

30 (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:9;

(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:9 from nucleotide 40 to nucleotide 1503;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:9 from nucleotide 863 to nucleotide 1377;

35 (d) a polynucleotide comprising the nucleotide sequence of the full- length protein coding sequence of clone dt674_2 deposited under accession number ATCC 98379;

(e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone dt674_2 deposited under accession number ATCC 98379;

(f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone dt674_2 deposited under accession number ATCC 98379;

5 (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone dt674_2 deposited under accession number ATCC 98379;

(h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:108;

(i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:108 having biological activity, the fragment comprising
10 the amino acid sequence from amino acid 238 to amino acid 247 of SEQ ID NO:108;

(j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;

(k) a polynucleotide which encodes a species homologue of the protein of
15 (h) or (i) above ; and

(l) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i).

139. A protein comprising an amino acid sequence selected from the group
20 consisting of:

(a) the amino acid sequence of SEQ ID NO:108;

(b) the amino acid sequence of SEQ ID NO:108 from amino acid 277 to amino acid 446;

(c) fragments of the amino acid sequence of SEQ ID NO:108 comprising the
25 amino acid sequence from amino acid 238 to amino acid 247 of SEQ ID NO:108; and

(d) the amino acid sequence encoded by the cDNA insert of clone dt674_2 deposited under accession number ATCC 98379;

the protein being substantially free from other mammalian proteins.

30 140. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:9.

141. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:109;

(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:109
35 from nucleotide 85 to nucleotide 450;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:109 from nucleotide 217 to nucleotide 450;

(d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone eh61_1 deposited under accession number ATCC 98379;

(e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone eh61_1 deposited under accession number ATCC 98379;

(f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone eh61_1 deposited under accession number ATCC 98379;

(g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone eh61_1 deposited under accession number ATCC 98379;

(h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:110;

(i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:110 having biological activity, the fragment comprising the amino acid sequence from amino acid 55 to amino acid 64 of SEQ ID NO:110;

(j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;

(k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and

(l) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i).

142. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:110;

(b) the amino acid sequence of SEQ ID NO:110 from amino acid 9 to amino acid 94;

(c) fragments of the amino acid sequence of SEQ ID NO:110 comprising the amino acid sequence from amino acid 55 to amino acid 64 of SEQ ID NO:110; and

(d) the amino acid sequence encoded by the cDNA insert of clone eh61_1 deposited under accession number ATCC 98379;
the protein being substantially free from other mammalian proteins.

143. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:109 and SEQ ID NO:111.

144. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:112;

(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:112 from nucleotide 900 to nucleotide 1073;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:112 from nucleotide 544 to nucleotide 1022;

5 (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone fg265_1 deposited under accession number ATCC 98379;

(e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone fg265_1 deposited under accession number ATCC 98379;

10 (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone fg265_1 deposited under accession number ATCC 98379;

(g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone fg265_1 deposited under accession number ATCC 98379;

(h) a polynucleotide encoding a protein comprising the amino acid sequence
15 of SEQ ID NO:113;

(i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:113 having biological activity, the fragment comprising the amino acid sequence from amino acid 24 to amino acid 33 of SEQ ID NO:113;

(j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g)
20 above;

(k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and

(l) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i).

25 145. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:113;

(b) the amino acid sequence of SEQ ID NO:113 from amino acid 1 to amino
30 acid 41;

(c) fragments of the amino acid sequence of SEQ ID NO:113 comprising the amino acid sequence from amino acid 24 to amino acid 33 of SEQ ID NO:113; and

(d) the amino acid sequence encoded by the cDNA insert of clone fg265_1 deposited under accession number ATCC 98379;

35 the protein being substantially free from other mammalian proteins.

146. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:112.

147. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:114;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:114
 - 5 from nucleotide 119 to nucleotide 2440;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:114 from nucleotide 200 to nucleotide 2440;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:114 from nucleotide 460 to nucleotide 1153;
 - 10 (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone fp273_10 deposited under accession number ATCC 98379;
 - (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone fp273_10 deposited under accession number ATCC 98379;
 - 15 (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone fp273_10 deposited under accession number ATCC 98379;
 - (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone fp273_10 deposited under accession number ATCC 98379;
 - (i) a polynucleotide encoding a protein comprising the amino acid sequence
 - 20 of SEQ ID NO:115;
 - (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:115 having biological activity, the fragment comprising the amino acid sequence from amino acid 382 to amino acid 391 of SEQ ID NO:115;
 - (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h)
 - 25 above;
 - (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
 - (m) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(j).

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148. A protein comprising an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:115;
 - (b) the amino acid sequence of SEQ ID NO:115 from amino acid 115 to
 - 35 amino acid 345;
 - (c) fragments of the amino acid sequence of SEQ ID NO:115 comprising the amino acid sequence from amino acid 382 to amino acid 391 of SEQ ID NO:115; and

(d) the amino acid sequence encoded by the cDNA insert of clone fp273_10 deposited under accession number ATCC 98379;
the protein being substantially free from other mammalian proteins.

5 149. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:114.

150. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:116;
10 (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:116 from nucleotide 1187 to nucleotide 1804;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:116 from nucleotide 674 to nucleotide 1014;

(d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone fy243_8 deposited under accession number ATCC 98379;

(e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone fy243_8 deposited under accession number ATCC 98379;

(f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone fy243_8 deposited under accession number ATCC 98379;

(g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone fy243_8 deposited under accession number ATCC 98379;

(h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:117;

25 (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:117 having biological activity, the fragment comprising the amino acid sequence from amino acid 98 to amino acid 107 of SEQ ID NO:117;

(j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;

30 (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and

(l) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i).

35 151. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:117;

(b) the amino acid sequence of SEQ ID NO:117 from amino acid 21 to amino acid 69;

(c) fragments of the amino acid sequence of SEQ ID NO:117 comprising the amino acid sequence from amino acid 98 to amino acid 107 of SEQ ID NO:117; and

5 (d) the amino acid sequence encoded by the cDNA insert of clone fy243_8 deposited under accession number ATCC 98379;
the protein being substantially free from other mammalian proteins.

152. An isolated gene corresponding to the cDNA sequence of SEQ ID
10 NO:116.

153. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:118;

(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:118
15 from nucleotide 99 to nucleotide 536;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:118 from nucleotide 1 to nucleotide 370;

(d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone ga205_4 deposited under accession number ATCC
20 98379;

(e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone ga205_4 deposited under accession number ATCC 98379;

(f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone ga205_4 deposited under accession number ATCC 98379;

25 (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone ga205_4 deposited under accession number ATCC 98379;

(h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:119;

(i) a polynucleotide encoding a protein comprising a fragment of the amino
30 acid sequence of SEQ ID NO:119 having biological activity, the fragment comprising the amino acid sequence from amino acid 68 to amino acid 77 of SEQ ID NO:119;

(j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;

(k) a polynucleotide which encodes a species homologue of the protein of
35 (h) or (i) above ; and

(l) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i).

154. A protein comprising an amino acid sequence selected from the group consisting of:
 - (a) the amino acid sequence of SEQ ID NO:119;
 - (b) the amino acid sequence of SEQ ID NO:119 from amino acid 1 to amino acid 90;
 - (c) fragments of the amino acid sequence of SEQ ID NO:119 comprising the amino acid sequence from amino acid 68 to amino acid 77 of SEQ ID NO:119; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone ga205_4 deposited under accession number ATCC 98379;the protein being substantially free from other mammalian proteins.
155. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:118.
156. An isolated polynucleotide selected from the group consisting of:
 - (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:133;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:133 from nucleotide 1799 to nucleotide 2332;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:133 from nucleotide 2288 to nucleotide 2332;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:133 from nucleotide 2306 to nucleotide 2754;
 - (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone en539_8 deposited under accession number ATCC 98408;
 - (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone en539_8 deposited under accession number ATCC 98408;
 - (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone en539_8 deposited under accession number ATCC 98408;
 - (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone en539_8 deposited under accession number ATCC 98408;
 - (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:134;
 - (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:134 having biological activity, the fragment comprising the amino acid sequence from amino acid 84 to amino acid 93 of SEQ ID NO:134;
 - (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;

(l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and

(m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

5

157. The polynucleotide of claim 156 wherein said polynucleotide is operably linked to at least one expression control sequence.

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158. A host cell transformed with the polynucleotide of claim 157.

159. The host cell of claim 158, wherein said cell is a mammalian cell.

160. A process for producing a protein encoded by the polynucleotide of claim 157, which process comprises:

15

(a) growing a culture of the host cell of claim 158 in a suitable culture medium; and

(b) purifying said protein from the culture.

20

161. A protein produced according to the process of claim 160.

162. The protein of claim 161 comprising a mature protein.

163. A protein comprising an amino acid sequence selected from the group consisting of:

25

(a) the amino acid sequence of SEQ ID NO:134;

(b) the amino acid sequence of SEQ ID NO:134 from amino acid 169 to amino acid 178;

(c) fragments of the amino acid sequence of SEQ ID NO:134 comprising the amino acid sequence from amino acid 84 to amino acid 93 of SEQ ID NO:134; and

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(d) the amino acid sequence encoded by the cDNA insert of clone en539_8 deposited under accession number ATCC 98408;
the protein being substantially free from other mammalian proteins.

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164. The protein of claim 163, wherein said protein comprises the amino acid sequence of SEQ ID NO:134.

165. The protein of claim 163, wherein said protein comprises the amino acid sequence of SEQ ID NO:134 from amino acid 169 to amino acid 178.

166. A composition comprising the protein of claim 8 and a pharmaceutically acceptable carrier.

5 167. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:133.

168. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:135;
- 10 (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:135 from nucleotide 91 to nucleotide 966;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:135 from nucleotide 1 to nucleotide 337;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone eq188_1 deposited under accession number ATCC 15 98408;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone eq188_1 deposited under accession number ATCC 98408;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone eq188_1 deposited under accession number ATCC 20 98408;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone eq188_1 deposited under accession number ATCC 98408;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:136;
- 25 (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:136 having biological activity, the fragment comprising the amino acid sequence from amino acid 141 to amino acid 150 of SEQ ID NO:136;
- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- 30 (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

35 169. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:136;

(b) the amino acid sequence of SEQ ID NO:136 from amino acid 1 to amino acid 83;

(c) fragments of the amino acid sequence of SEQ ID NO:136 comprising the amino acid sequence from amino acid 141 to amino acid 150 of SEQ ID NO:136; and

5 (d) the amino acid sequence encoded by the cDNA insert of clone eq188_1 deposited under accession number ATCC 98408;
the protein being substantially free from other mammalian proteins.

170. An isolated gene corresponding to the cDNA sequence of SEQ ID
10 NO:135.

171. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:137;

(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:137
15 from nucleotide 51 to nucleotide 1358;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:137 from nucleotide 99 to nucleotide 1358;

(d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:137 from nucleotide 249 to nucleotide 566;

20 (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone er80_1 deposited under accession number ATCC 98408;

(f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone er80_1 deposited under accession number ATCC 98408;

25 (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone er80_1 deposited under accession number ATCC 98408;

(h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone er80_1 deposited under accession number ATCC 98408;

(i) a polynucleotide encoding a protein comprising the amino acid sequence
30 of SEQ ID NO:138;

(j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:138 having biological activity, the fragment comprising the amino acid sequence from amino acid 213 to amino acid 222 of SEQ ID NO:138;

(k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h)
35 above;

(l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and

(m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

172. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:138;
 - (b) the amino acid sequence of SEQ ID NO:138 from amino acid 1 to amino acid 172;
 - (c) fragments of the amino acid sequence of SEQ ID NO:138 comprising the amino acid sequence from amino acid 213 to amino acid 222 of SEQ ID NO:138; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone er80_1 deposited under accession number ATCC 98408;
- the protein being substantially free from other mammalian proteins.

173. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:137.

174. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:139;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:139 from nucleotide 571 to nucleotide 3306;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:139 from nucleotide 726 to nucleotide 1320;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone er418_5 deposited under accession number ATCC 98408;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone er418_5 deposited under accession number ATCC 98408;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone er418_5 deposited under accession number ATCC 98408;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone er418_5 deposited under accession number ATCC 98408;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:140;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:140 having biological activity, the fragment comprising the amino acid sequence from amino acid 450 to amino acid 459 of SEQ ID NO:140;

(j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;

(k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and

5 (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

175. A protein comprising an amino acid sequence selected from the group consisting of:

10 (a) the amino acid sequence of SEQ ID NO:140;

(b) the amino acid sequence of SEQ ID NO:140 from amino acid 71 to amino acid 250;

(c) fragments of the amino acid sequence of SEQ ID NO:140 comprising the amino acid sequence from amino acid 450 to amino acid 459 of SEQ ID NO:140; and

15 (d) the amino acid sequence encoded by the cDNA insert of clone er418_5 deposited under accession number ATCC 98408; the protein being substantially free from other mammalian proteins.

176. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:139.

177. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:141;

25 (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:141 from nucleotide 503 to nucleotide 2770;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:141 from nucleotide 572 to nucleotide 2770;

(d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:141 from nucleotide 490 to nucleotide 772;

30 (e) a polynucleotide comprising the nucleotide sequence of the full- length protein coding sequence of clone fa252_8 deposited under accession number ATCC 98408;

(f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone fa252_8 deposited under accession number ATCC 98408;

35 (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone fa252_8 deposited under accession number ATCC 98408;

(h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone fa252_8 deposited under accession number ATCC 98408;

(i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:142;

(j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:142 having biological activity, the fragment comprising the amino acid sequence from amino acid 373 to amino acid 382 of SEQ ID NO:142;

(k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;

(l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and

(m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

178. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:142;

(b) the amino acid sequence of SEQ ID NO:142 from amino acid 1 to amino acid 90;

(c) fragments of the amino acid sequence of SEQ ID NO:142 comprising the amino acid sequence from amino acid 373 to amino acid 382 of SEQ ID NO:142; and

(d) the amino acid sequence encoded by the cDNA insert of clone fa252_8 deposited under accession number ATCC 98408; the protein being substantially free from other mammalian proteins.

179. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:141.

180. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:143;

(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:143 from nucleotide 104 to nucleotide 565;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:143 from nucleotide 1 to nucleotide 501;

(d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone fg912_1 deposited under accession number ATCC 98408;

(e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone fg912_1 deposited under accession number ATCC 98408;

(f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone fg912_1 deposited under accession number ATCC 98408;

(g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone fg912_1 deposited under accession number ATCC 98408;

5 (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:144;

(i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:144 having biological activity, the fragment comprising the amino acid sequence from amino acid 72 to amino acid 81 of SEQ ID NO:144;

10 (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;

(k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and

(l) a polynucleotide that hybridizes under stringent conditions to any one
15 of the polynucleotides specified in (a)-(i).

181. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:144;

20 (b) the amino acid sequence of SEQ ID NO:144 from amino acid 1 to amino acid 132;

(c) fragments of the amino acid sequence of SEQ ID NO:144 comprising the amino acid sequence from amino acid 72 to amino acid 81 of SEQ ID NO:144; and

(d) the amino acid sequence encoded by the cDNA insert of clone fg912_1
25 deposited under accession number ATCC 98408;
the protein being substantially free from other mammalian proteins.

182. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:143.

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183. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:145;

(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:145 from nucleotide 77 to nucleotide 1093;

35 (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:145 from nucleotide 167 to nucleotide 1093;

(d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:145 from nucleotide 1 to nucleotide 718;

(e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone fg949_3 deposited under accession number ATCC 98408;

(f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone fg949_3 deposited under accession number ATCC 98408;

(g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone fg949_3 deposited under accession number ATCC 98408;

(h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone fg949_3 deposited under accession number ATCC 98408;

(i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:146;

(j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:146 having biological activity, the fragment comprising the amino acid sequence from amino acid 164 to amino acid 173 of SEQ ID NO:146;

(k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;

(l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above; and

(m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

184. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:146;

(b) the amino acid sequence of SEQ ID NO:146 from amino acid 1 to amino acid 214;

(c) fragments of the amino acid sequence of SEQ ID NO:146 comprising the amino acid sequence from amino acid 164 to amino acid 173 of SEQ ID NO:146; and

(d) the amino acid sequence encoded by the cDNA insert of clone fg949_3 deposited under accession number ATCC 98408;

the protein being substantially free from other mammalian proteins.

185. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:145.

186. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:147;

(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:147 from nucleotide 19 to nucleotide 1023;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:147 from nucleotide 247 to nucleotide 711;

5 (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone fk354_4 deposited under accession number ATCC 98408;

(e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone fk354_4 deposited under accession number ATCC 98408;

10 (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone fk354_4 deposited under accession number ATCC 98408;

(g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone fk354_4 deposited under accession number ATCC 98408;

(h) a polynucleotide encoding a protein comprising the amino acid sequence
15 of SEQ ID NO:148;

(i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:148 having biological activity, the fragment comprising the amino acid sequence from amino acid 162 to amino acid 171 of SEQ ID NO:148;

(j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g)
20 above;

(k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and

(l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

25 187. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:148;

(b) the amino acid sequence of SEQ ID NO:148 from amino acid 147 to
30 amino acid 231;

(c) fragments of the amino acid sequence of SEQ ID NO:148 comprising the amino acid sequence from amino acid 162 to amino acid 171 of SEQ ID NO:148; and

(d) the amino acid sequence encoded by the cDNA insert of clone fk354_4 deposited under accession number ATCC 98408;

35 the protein being substantially free from other mammalian proteins.

188. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:147.

189. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:149;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:149
5 from nucleotide 11 to nucleotide 970;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:149
from nucleotide 1 to nucleotide 575;
 - (d) a polynucleotide comprising the nucleotide sequence of the full-length
protein coding sequence of clone fm150_1 deposited under accession number ATCC
10 98408;
 - (e) a polynucleotide encoding the full-length protein encoded by the cDNA
insert of clone fm150_1 deposited under accession number ATCC 98408;
 - (f) a polynucleotide comprising the nucleotide sequence of a mature protein
coding sequence of clone fm150_1 deposited under accession number ATCC 98408;
 - 15 (g) a polynucleotide encoding a mature protein encoded by the cDNA insert
of clone fm150_1 deposited under accession number ATCC 98408;
 - (h) a polynucleotide encoding a protein comprising the amino acid sequence
of SEQ ID NO:150;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino
20 acid sequence of SEQ ID NO:150 having biological activity, the fragment comprising
the amino acid sequence from amino acid 155 to amino acid 164 of SEQ ID NO:150;
 - (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g)
above;
 - (k) a polynucleotide which encodes a species homologue of the protein of
25 (h) or (i) above ; and
 - (l) a polynucleotide that hybridizes under stringent conditions to any one
of the polynucleotides specified in (a)-(i).

190. A protein comprising an amino acid sequence selected from the group
30 consisting of:
- (a) the amino acid sequence of SEQ ID NO:150;
 - (b) the amino acid sequence of SEQ ID NO:150 from amino acid 1 to amino
acid 188;
 - (c) fragments of the amino acid sequence of SEQ ID NO:150 comprising the
35 amino acid sequence from amino acid 155 to amino acid 164 of SEQ ID NO:150; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone fm150_1
deposited under accession number ATCC 98408;
the protein being substantially free from other mammalian proteins.

191. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:149.

- 5 192. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:151;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:151 from nucleotide 223 to nucleotide 882;
 - (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:151 from nucleotide 46 to nucleotide 351;
 - (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone gu534_1 deposited under accession number ATCC 98408;
 - (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone gu534_1 deposited under accession number ATCC 98408;
 - (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone gu534_1 deposited under accession number ATCC 98408;
 - (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone gu534_1 deposited under accession number ATCC 98408;
 - 20 (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:152;
 - (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:152 having biological activity, the fragment comprising the amino acid sequence from amino acid 105 to amino acid 114 of SEQ ID NO:152;
 - 25 (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
 - (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
 - (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
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193. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:152;
- 35 (b) the amino acid sequence of SEQ ID NO:152 from amino acid 1 to amino acid 43;
- (c) fragments of the amino acid sequence of SEQ ID NO:152 comprising the amino acid sequence from amino acid 105 to amino acid 114 of SEQ ID NO:152; and

(d) the amino acid sequence encoded by the cDNA insert of clone gu534_1 deposited under accession number ATCC 98408; the protein being substantially free from other mammalian proteins.

5 194. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:151.

195. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:163;
- 10 (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:163 from nucleotide 99 to nucleotide 902;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:163 from nucleotide 162 to nucleotide 902;
- (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:163
- 15 from nucleotide 87 to nucleotide 219;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone ci25_4 deposited under accession number ATCC 98415;
- (f) a polynucleotide encoding the full-length protein encoded by the cDNA
- 20 insert of clone ci25_4 deposited under accession number ATCC 98415;
- (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone ci25_4 deposited under accession number ATCC 98415;
- (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone ci25_4 deposited under accession number ATCC 98415;
- 25 (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:164;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:164 having biological activity, the fragment comprising the amino acid sequence from amino acid 129 to amino acid 138 of SEQ ID NO:164;
- 30 (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
- (m) a polynucleotide that hybridizes under stringent conditions to any one
- 35 of the polynucleotides specified in (a)-(j).

196. The polynucleotide of claim 195 wherein said polynucleotide is operably linked to at least one expression control sequence.

197. A host cell transformed with the polynucleotide of claim 196.

198. The host cell of claim 197, wherein said cell is a mammalian cell.

199. A process for producing a protein encoded by the polynucleotide of claim 196, which process comprises:

(a) growing a culture of the host cell of claim 197 in a suitable culture medium; and

(b) purifying said protein from the culture.

200. A protein produced according to the process of claim 199.

201. The protein of claim 200 comprising a mature protein.

202. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:164;

(b) fragments of the amino acid sequence of SEQ ID NO:164 comprising the amino acid sequence from amino acid 129 to amino acid 138 of SEQ ID NO:164; and

(c) the amino acid sequence encoded by the cDNA insert of clone ci25_4 deposited under accession number ATCC 98415; the protein being substantially free from other mammalian proteins.

203. The protein of claim 202, wherein said protein comprises the amino acid sequence of SEQ ID NO:164.

204. A composition comprising the protein of claim 202 and a pharmaceutically acceptable carrier.

205. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:163.

206. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:165;

(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:165 from nucleotide 283 to nucleotide 1158;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:165 from nucleotide 1 to nucleotide 789;

(d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone da228_6 deposited under accession number ATCC 98415;

(e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone da228_6 deposited under accession number ATCC 98415;

(f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone da228_6 deposited under accession number ATCC 98415;

(g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone da228_6 deposited under accession number ATCC 98415;

(h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:166;

(i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:166 having biological activity, the fragment comprising the amino acid sequence from amino acid 141 to amino acid 150 of SEQ ID NO:166;

(j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;

(k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and

(l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

207. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:166;

(b) the amino acid sequence of SEQ ID NO:166 from amino acid 1 to amino acid 169;

(c) fragments of the amino acid sequence of SEQ ID NO:166 comprising the amino acid sequence from amino acid 141 to amino acid 150 of SEQ ID NO:166; and

(d) the amino acid sequence encoded by the cDNA insert of clone da228_6 deposited under accession number ATCC 98415;

the protein being substantially free from other mammalian proteins.

208. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:165.

209. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:167;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:167 from nucleotide 152 to nucleotide 2182;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:167 from nucleotide 2 to nucleotide 931;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone du410_5 deposited under accession number ATCC 98415;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone du410_5 deposited under accession number ATCC 98415;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone du410_5 deposited under accession number ATCC 98415;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone du410_5 deposited under accession number ATCC 98415;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:168;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:168 having biological activity, the fragment comprising the amino acid sequence from amino acid 333 to amino acid 342 of SEQ ID NO:168;
- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

210. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:168;
 - (b) the amino acid sequence of SEQ ID NO:168 from amino acid 1 to amino acid 260;
 - (c) fragments of the amino acid sequence of SEQ ID NO:168 comprising the amino acid sequence from amino acid 333 to amino acid 342 of SEQ ID NO:168; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone du410_5 deposited under accession number ATCC 98415;
- the protein being substantially free from other mammalian proteins.

211. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:167.

212. An isolated polynucleotide selected from the group consisting of:

- 5 (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:169;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:169 from nucleotide 51 to nucleotide 611;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:169 from nucleotide 1 to nucleotide 525;
- 10 (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone eh80_1 deposited under accession number ATCC 98415;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone eh80_1 deposited under accession number ATCC 98415;
- 15 (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone eh80_1 deposited under accession number ATCC 98415;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone eh80_1 deposited under accession number ATCC 98415;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence
20 of SEQ ID NO:170;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:170 having biological activity, the fragment comprising the amino acid sequence from amino acid 88 to amino acid 97 of SEQ ID NO:170;
- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g)
25 above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

30 213. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:170;
- (b) the amino acid sequence of SEQ ID NO:170 from amino acid 1 to amino
35 acid 158;
- (c) fragments of the amino acid sequence of SEQ ID NO:170 comprising the amino acid sequence from amino acid 88 to amino acid 97 of SEQ ID NO:170; and

(d) the amino acid sequence encoded by the cDNA insert of clone eh80_1 deposited under accession number ATCC 98415; the protein being substantially free from other mammalian proteins.

5 214. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:169.

215. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:171;
10 (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:171 from nucleotide 431 to nucleotide 559;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:171 from nucleotide 518 to nucleotide 559;

(d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:171
15 from nucleotide 190 to nucleotide 547;

(e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone er369_1 deposited under accession number ATCC 98415;

(f) a polynucleotide encoding the full-length protein encoded by the cDNA
20 insert of clone er369_1 deposited under accession number ATCC 98415;

(g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone er369_1 deposited under accession number ATCC 98415;

(h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone er369_1 deposited under accession number ATCC 98415;

25 (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:172;

(j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:172 having biological activity, the fragment comprising the amino acid sequence from amino acid 16 to amino acid 25 of SEQ ID NO:172;

30 (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;

(l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above; and

(m) a polynucleotide that hybridizes under stringent conditions to any one
35 of the polynucleotides specified in (a)-(j).

216. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:172;
 - (b) the amino acid sequence of SEQ ID NO:172 from amino acid 1 to amino acid 39;
 - (c) fragments of the amino acid sequence of SEQ ID NO:172 comprising the amino acid sequence from amino acid 16 to amino acid 25 of SEQ ID NO:172; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone er369_1 deposited under accession number ATCC 98415;
- the protein being substantially free from other mammalian proteins.

217. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:171.

218. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:173;
- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:173 from nucleotide 91 to nucleotide 2838;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:173 from nucleotide 2209 to nucleotide 2838;
- (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:173 from nucleotide 839 to nucleotide 1197;
- (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone fh123_5 deposited under accession number ATCC 98415;
- (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone fh123_5 deposited under accession number ATCC 98415;
- (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone fh123_5 deposited under accession number ATCC 98415;
- (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone fh123_5 deposited under accession number ATCC 98415;
- (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:174;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:174 having biological activity, the fragment comprising the amino acid sequence from amino acid 453 to amino acid 462 of SEQ ID NO:174;
- (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and

(m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

219. A protein comprising an amino acid sequence selected from the group
5 consisting of:

- (a) the amino acid sequence of SEQ ID NO:174;
 - (b) the amino acid sequence of SEQ ID NO:174 from amino acid 251 to amino acid 369;
 - (c) fragments of the amino acid sequence of SEQ ID NO:174 comprising the
10 amino acid sequence from amino acid 453 to amino acid 462 of SEQ ID NO:174; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone fh123_5 deposited under accession number ATCC 98415;
- the protein being substantially free from other mammalian proteins.

15 220. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:173.

221. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:175;
- 20 (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:175 from nucleotide 568 to nucleotide 978;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:175 from nucleotide 1084 to nucleotide 1854;
- (d) a polynucleotide comprising the nucleotide sequence of the full-length
25 protein coding sequence of clone fm60_1 deposited under accession number ATCC 98415;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone fm60_1 deposited under accession number ATCC 98415;
- (f) a polynucleotide comprising the nucleotide sequence of a mature protein
30 coding sequence of clone fm60_1 deposited under accession number ATCC 98415;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone fm60_1 deposited under accession number ATCC 98415;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:176;
- 35 (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:176 having biological activity, the fragment comprising the amino acid sequence from amino acid 63 to amino acid 72 of SEQ ID NO:176;

(j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;

(k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and

5 (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

222. A protein comprising an amino acid sequence selected from the group consisting of:

10 (a) the amino acid sequence of SEQ ID NO:176;

(b) fragments of the amino acid sequence of SEQ ID NO:176 comprising the amino acid sequence from amino acid 63 to amino acid 72 of SEQ ID NO:176; and

(c) the amino acid sequence encoded by the cDNA insert of clone fm60_1 deposited under accession number ATCC 98415;

15 the protein being substantially free from other mammalian proteins.

223. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:175.

20 224. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:177;

(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:177 from nucleotide 16 to nucleotide 309;

25 (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:177 from nucleotide 127 to nucleotide 309;

(d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone fr473_2 deposited under accession number ATCC 98415;

30 (e) a polynucleotide encoding the full-length protein encoded by the cDNA, insert of clone fr473_2 deposited under accession number ATCC 98415;

(f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone fr473_2 deposited under accession number ATCC 98415;

35 (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone fr473_2 deposited under accession number ATCC 98415;

(h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:178;

(i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:178 having biological activity, the fragment comprising the amino acid sequence from amino acid 44 to amino acid 53 of SEQ ID NO:178;

(j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;

(k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and

(l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

10

225. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:178;

(b) the amino acid sequence of SEQ ID NO:178 from amino acid 1 to amino acid 58;

(c) fragments of the amino acid sequence of SEQ ID NO:178 comprising the amino acid sequence from amino acid 44 to amino acid 53 of SEQ ID NO:178; and

(d) the amino acid sequence encoded by the cDNA insert of clone fr473_2 deposited under accession number ATCC 98415;

20 the protein being substantially free from other mammalian proteins.

226. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:177.

25 227. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:188;

(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:188 from nucleotide 266 to nucleotide 1651;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:188 from nucleotide 521 to nucleotide 1651;

(d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:188 from nucleotide 335 to nucleotide 634;

(e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone as294_3 deposited under accession number ATCC 98444;

(f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone as294_3 deposited under accession number ATCC 98444;

(g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone as294_3 deposited under accession number ATCC 98444;

(h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone as294_3 deposited under accession number ATCC 98444;

5 (i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:189;

(j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:189 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:189;

10 (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;

(l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and

(m) a polynucleotide that hybridizes under stringent conditions to any one
15 of the polynucleotides specified in (a)-(j).

228. The polynucleotide of claim 227 wherein said polynucleotide is operably linked to at least one expression control sequence.

20 229. A host cell transformed with the polynucleotide of claim 228.

230. The host cell of claim 229, wherein said cell is a mammalian cell.

231. A process for producing a protein encoded by the polynucleotide of
25 claim 228, which process comprises:

(a) growing a culture of the host cell of claim 229 in a suitable culture medium; and

(b) purifying said protein from the culture.

30 232. A protein produced according to the process of claim 231.

233. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:189;

35 (b) the amino acid sequence of SEQ ID NO:189 from amino acid 1 to amino acid 123;

(c) fragments of the amino acid sequence of SEQ ID NO:189 comprising eight consecutive amino acids of SEQ ID NO:189; and

(d) the amino acid sequence encoded by the cDNA insert of clone as294_3 deposited under accession number ATCC 98444; the protein being substantially free from other mammalian proteins.

5 234. The protein of claim 233, wherein said protein comprises the amino acid sequence of SEQ ID NO:189.

235. The protein of claim 233, wherein said protein comprises the amino acid sequence of SEQ ID NO:189 from amino acid 1 to amino acid 123.
10

236. A composition comprising the protein of claim 233 and a pharmaceutically acceptable carrier.

237. An isolated gene corresponding to the cDNA sequence of SEQ ID
15 NO:188.

238. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:190;
(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:190
20 from nucleotide 262 to nucleotide 3096;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:190 from nucleotide 1118 to nucleotide 1527;

(d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone aw92_1 deposited under accession number ATCC
25 98444;

(e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone aw92_1 deposited under accession number ATCC 98444;

(f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone aw92_1 deposited under accession number ATCC 98444;

30 (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone aw92_1 deposited under accession number ATCC 98444;

(h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:191;

(i) a polynucleotide encoding a protein comprising a fragment of the amino
35 acid sequence of SEQ ID NO:191 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:191;

(j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;

(k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and

(l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

5

239. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:191;

(b) the amino acid sequence of SEQ ID NO:191 from amino acid 287 to amino acid 422;

(c) fragments of the amino acid sequence of SEQ ID NO:191 comprising eight consecutive amino acids of SEQ ID NO:191; and

(d) the amino acid sequence encoded by the cDNA insert of clone aw92_1 deposited under accession number ATCC 98444;

15 the protein being substantially free from other mammalian proteins.

240. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:190.

20 241. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:192;

(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:192 from nucleotide 612 to nucleotide 806;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:192 from nucleotide 744 to nucleotide 806;

(d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:192 from nucleotide 1 to nucleotide 794;

(e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bd316_2 deposited under accession number ATCC 98444;

(f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bd316_2 deposited under accession number ATCC 98444;

(g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone bd316_2 deposited under accession number ATCC 98444;

35 (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone bd316_2 deposited under accession number ATCC 98444;

(i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:193;

(j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:193 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:193;

(k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;

(l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above; and

(m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

242. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:193;

(b) the amino acid sequence of SEQ ID NO:193 from amino acid 1 to amino acid 61;

(c) fragments of the amino acid sequence of SEQ ID NO:193 comprising eight consecutive amino acids of SEQ ID NO:193; and

(d) the amino acid sequence encoded by the cDNA insert of clone bd316_2 deposited under accession number ATCC 98444;

the protein being substantially free from other mammalian proteins.

243. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:192.

244. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:194;

(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:194 from nucleotide 7 to nucleotide 300;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:194 from nucleotide 1 to nucleotide 363;

(d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bk130_4 deposited under accession number ATCC 98444;

(e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bk130_4 deposited under accession number ATCC 98444;

(f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone bk130_4 deposited under accession number ATCC 98444;

(g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone bk130_4 deposited under accession number ATCC 98444;

(h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:195;

5 (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:195 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:195;

(j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;

10 (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and

(l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

15 245. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:195;

(b) fragments of the amino acid sequence of SEQ ID NO:195 comprising eight consecutive amino acids of SEQ ID NO:195; and

20 (c) the amino acid sequence encoded by the cDNA insert of clone bk130_4 deposited under accession number ATCC 98444; the protein being substantially free from other mammalian proteins.

25 246. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:194.

247. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:196;

30 (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:196 from nucleotide 52 to nucleotide 1863;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:196 from nucleotide 1219 to nucleotide 1863;

(d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:196 from nucleotide 1099 to nucleotide 1743;

35 (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bv131_5 deposited under accession number ATCC 98444;

(f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bv131_5 deposited under accession number ATCC 98444;

(g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone bv131_5 deposited under accession number ATCC 98444;

5 (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone bv131_5 deposited under accession number ATCC 98444;

(i) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:197;

(j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:197 having biological activity, the fragment comprising
10 eight consecutive amino acids of SEQ ID NO:197;

(k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h) above;

(l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
15

(m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).

248. A protein comprising an amino acid sequence selected from the group
20 consisting of:

(a) the amino acid sequence of SEQ ID NO:197;

(b) the amino acid sequence of SEQ ID NO:197 from amino acid 430 to amino acid 564;

(c) fragments of the amino acid sequence of SEQ ID NO:197 comprising
25 eight consecutive amino acids of SEQ ID NO:197; and

(d) the amino acid sequence encoded by the cDNA insert of clone bv131_5 deposited under accession number ATCC 98444;

the protein being substantially free from other mammalian proteins.

30 249. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:196.

250. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:198;

35 (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:198 from nucleotide 67 to nucleotide 690;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:198 from nucleotide 1 to nucleotide 576;

(d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone bv227_1 deposited under accession number ATCC 98444;

(e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone bv227_1 deposited under accession number ATCC 98444;

(f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone bv227_1 deposited under accession number ATCC 98444;

(g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone bv227_1 deposited under accession number ATCC 98444;

(h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:199;

(i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:199 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:199;

(j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;

(k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and

(l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

251. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:199;

(b) the amino acid sequence of SEQ ID NO:199 from amino acid 1 to amino acid 170;

(c) fragments of the amino acid sequence of SEQ ID NO:199 comprising eight consecutive amino acids of SEQ ID NO:199; and

(d) the amino acid sequence encoded by the cDNA insert of clone bv227_1 deposited under accession number ATCC 98444; the protein being substantially free from other mammalian proteins.

252. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:198.

253. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:200;

- (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:200 from nucleotide 657 to nucleotide 1469;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:200 from nucleotide 678 to nucleotide 1103;
- 5 (d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone cd265_11 deposited under accession number ATCC 98444;
- (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone cd265_11 deposited under accession number ATCC 98444;
- 10 (f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone cd265_11 deposited under accession number ATCC 98444;
- (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone cd265_11 deposited under accession number ATCC 98444;
- (h) a polynucleotide encoding a protein comprising the amino acid sequence
15 of SEQ ID NO:201;
- (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:201 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:201;
- (j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g)
20 above;
- (k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and
- (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).
- 25
254. A protein comprising an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:201;
- (b) the amino acid sequence of SEQ ID NO:201 from amino acid 8 to amino
30 acid 149;
- (c) fragments of the amino acid sequence of SEQ ID NO:201 comprising eight consecutive amino acids of SEQ ID NO:201; and
- (d) the amino acid sequence encoded by the cDNA insert of clone cd265_11 deposited under accession number ATCC 98444;
- 35 the protein being substantially free from other mammalian proteins.
255. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:200.

256. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:202;
 - (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:202
- 5 from nucleotide 261 to nucleotide 896;
- (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:202 from nucleotide 330 to nucleotide 896;
 - (d) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:202 from nucleotide 1 to nucleotide 515;
- 10 (e) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone ej265_4 deposited under accession number ATCC 98444;
- (f) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone ej265_4 deposited under accession number ATCC 98444;
- 15 (g) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone ej265_4 deposited under accession number ATCC 98444;
- (h) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone ej265_4 deposited under accession number ATCC 98444;
 - (i) a polynucleotide encoding a protein comprising the amino acid sequence
- 20 of SEQ ID NO:203;
- (j) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:203 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:203;
 - (k) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(h)
- 25 above;
- (l) a polynucleotide which encodes a species homologue of the protein of (i) or (j) above ; and
 - (m) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(j).
- 30
257. A protein comprising an amino acid sequence selected from the group consisting of:
- (a) the amino acid sequence of SEQ ID NO:203;
 - (b) the amino acid sequence of SEQ ID NO:203 from amino acid 1 to amino
- 35 acid 85;
- (c) fragments of the amino acid sequence of SEQ ID NO:203 comprising eight consecutive amino acids of SEQ ID NO:203; and

(d) the amino acid sequence encoded by the cDNA insert of clone ej265_4 deposited under accession number ATCC 98444; the protein being substantially free from other mammalian proteins.

5 258. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:202.

259. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:24;
10 (b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:24 from nucleotide 946 to nucleotide 2232;

(c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:24 from nucleotide 1336 to nucleotide 1853;

(d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone ey29_8 deposited under accession number ATCC 98444;
15

(e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone ey29_8 deposited under accession number ATCC 98444;

(f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone ey29_8 deposited under accession number ATCC 98444;
20

(g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone ey29_8 deposited under accession number ATCC 98444;

(h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:205;

(i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:205 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:205;
25

(j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;

(k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above; and
30

(l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

35 260. A protein comprising an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of SEQ ID NO:205;

(b) the amino acid sequence of SEQ ID NO:205 from amino acid 138 to amino acid 302;

(c) fragments of the amino acid sequence of SEQ ID NO:205 comprising eight consecutive amino acids of SEQ ID NO:205; and

5 (d) the amino acid sequence encoded by the cDNA insert of clone ey29_8 deposited under accession number ATCC 98444;
the protein being substantially free from other mammalian proteins.

10 261. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:24.

262. An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:206;

(b) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:206 from nucleotide 2588 to nucleotide 3439;

15 (c) a polynucleotide comprising the nucleotide sequence of SEQ ID NO:206 from nucleotide 3005 to nucleotide 3502;

(d) a polynucleotide comprising the nucleotide sequence of the full-length protein coding sequence of clone gm114_10 deposited under accession number ATCC 98444;

20 (e) a polynucleotide encoding the full-length protein encoded by the cDNA insert of clone gm114_10 deposited under accession number ATCC 98444;

(f) a polynucleotide comprising the nucleotide sequence of a mature protein coding sequence of clone gm114_10 deposited under accession number ATCC 98444;

25 (g) a polynucleotide encoding a mature protein encoded by the cDNA insert of clone gm114_10 deposited under accession number ATCC 98444;

(h) a polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:207;

30 (i) a polynucleotide encoding a protein comprising a fragment of the amino acid sequence of SEQ ID NO:207 having biological activity, the fragment comprising eight consecutive amino acids of SEQ ID NO:207;

(j) a polynucleotide which is an allelic variant of a polynucleotide of (a)-(g) above;

(k) a polynucleotide which encodes a species homologue of the protein of (h) or (i) above ; and

35 (l) a polynucleotide that hybridizes under stringent conditions to any one of the polynucleotides specified in (a)-(i).

263. A protein comprising an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:207;
 - (b) the amino acid sequence of SEQ ID NO:207 from amino acid 145 to amino acid 284;
 - (c) fragments of the amino acid sequence of SEQ ID NO:207 comprising eight consecutive amino acids of SEQ ID NO:207; and
 - (d) the amino acid sequence encoded by the cDNA insert of clone gm114_10 deposited under accession number ATCC 98444;
- the protein being substantially free from other mammalian proteins.

264. An isolated gene corresponding to the cDNA sequence of SEQ ID NO:206.

15